Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/01/2016 11/01/2016	Pavel Kazi

LM Start	0.00	Rating **	Α	Issue No.		4		
LM End	0.00	Issue Type +	Ма	Location * N/A				
Category	Earthen L	evee		GPS La	atitude	e/Longitude		
Calegory				Start		End		
Item		s & Maintena	nce		0		0	
пеш	Manuals				0		0	
DWR ID	DWR_RD0	150_01_s _ 201	3_4					
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
This LMA	has the up	dated O&M m	anuals f	or their dist	rict.			

No Photos

Issue No. LM Start 0.00 Rating ** Α 5 Location * Issue Type + N/A 0.00 Ma LM End Earthen Levee GPS Latitude/Longitude Category Start End Emergency Supplies & Item Equipment DWR RD0150 01 s 2013 5 DWR ID Comment Code Inspector Comment

No Photos

This LMA has adequate amount of flood fighting materials in a centralized location.

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

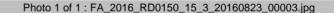
Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/01/2016 11/01/2016	Pavel Kazi

LM Start	0.00	Rating **	Α	Issue No.		6	
LM End	0.00	Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &	Training		0		0
пеш					0		0
DWR ID	DWR_RD0	150_01_s _ 201	13_6				
		Comn	nent Coc	le			
		Inspecto	or Comm	ent			
The crew of this LMA had flood fighting training from DWR.							

No Photos

LM Start	0.19	Rating **	A/W	Issue No.		3
LM End	0.19	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Vegetatio	n		38.3314	02°	38.331402°
пеш				-121.580358 °		-121.580358°
DWR ID	DWR_RD0	150_01_s _ 201	2_3			
		Comn	nent Cod	de		
V4 : Elderb	perries are	blocking visib	ility and	flood fight	сара	bility.
Inspector Comment						
Elderberry is trimmed and levee slope is accessible.						





View of the elderberry on the landside toe of the levee. The elderberry doesn't block visibility and it is trimmed up 5 feet above the slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/01/2016 11/01/2016	Pavel Kazi

LM Start	0.44	Rating **	М	Issue No.		2
LM End	0.49	Issue Type +	Ma	Location *		WS
Category	Suppleme	ntal		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	2015 USACE Erosion Survey,			38.3285	555°	38.328020°
item	DRAFT			-121.577544°		-121.576693°
DWR ID	DWR_RD0	150_01_s _ 201	6_2			
		Comn	nent Cod	de		
	Inspector Comment					

Inspector Comment

2013 - Old toe repair unraveling. Bridge at upstream end of site. 2015: No observed changes. [2015 Site ID: STR_28-4_R]

LM Start	0.44	Rating **	М	Issue No.	2 (cont)
LM End	0.49	Issue Type +	Ма	Location *	WS



USACE 2013 Photo #1

Photo 2 of 2: FA_2016_RD0150_15_2_20160823_00002.jpg



USACE 2013 Photo #2

LM Start	0.49	Rating **	М	Issue No.		7	
LM End	0.49	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		38.3282	:56°	38.328256°	
item				-121.576637° -121.576			
DWR ID	DWR_RD0	150_01_f _ 201	6_7				
		Comn	nent Cod	de			
DE : Debri	s						
			_				
		Inspecto	or Comm	nent			

Photo 1 of 1: FA_2016_RD0150_15_7_20161104_00005.jpg



View of debris on the waterside slope of the levee. Fall 2016

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Slough	Left	0.52	11/01/2016 11/01/2016	Pavel Kazi

LM Start	0.49	Rating **	Α	Issue No.		1	
LM End	0.49	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atituc	le/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.3282	243°	38.328243°	
пеш				-121.5765	90°	-121.576590°	
DWR ID	DWR ID DWR_RD0150_01_f _ 2016_1						
		Comn	nent Cod	le			
V1 : Contro easements		rass and wee	ds on th	e levee slo	pes	and	
		Inspecto	or Comm	ent			
Acceptable	e vegetatio	n					



View of the landside slope of the levee. Fall 2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

ide id							
id							
u							
32598°							
72179°							
DWR ID DWR_RD0150_02_s _ 2012_6							
cess							

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	i i	/01/2016

Photo 1 of 2: FA_2016_RD0150_16_6_20161104_00118.jpg

Updated view of the slope instability on the waterside of the levee. Fall 2016

LM Start 0.38 Rating ** M Issue No. 6 (cont) LM End 0.38 Issue Type + Ma Location * WS

Photo 2 of 2: FA_2016_RD0150_16_6_20160823_00003.jpg



Updated photo of the slope instability on the waterside of the levee looking upstream during spring 2014 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	0.53	Rating **	N	Issue No.		66	
LM End	0.53	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.3343	18°	38.334318°	
пеш				-121.570349°		-121.570349°	
DWR ID DWR_RD0150_02_f _ 2016_66							
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			

No Photos

LM Start	0.56	Rating **	М	Issue No.		57	
LM End	0.56	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS L	atitude	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		38.3345	25°	38.334525°	
iteiii				-121.570025 °		-121.570025°	
DWR ID DWR_RD0150_02_s _ 2016_57							
		Comn	nent Cod	de			
TR : Tree	or limb						
		Inspecto	or Comm	nent			



View of tree stumps on the waterside shoulder of the levee looking downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

I M Ctt	0.71	Rating **	М	Issue No.		10	
LM Start	-						
LM End	0.71	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Odlogory				Start		End	
Item	Encroach	ments		38.3362	28°	38.336228°	
item				-121.568332 °		-121.568332°	
DWR ID DWR_RD0150_02_s _ 2013_10							
		Comn	nent Cod	de			
DE : Debri	S						
		Inspecto	or Comm	nent			



Debris was found on the waterside slope of the levee looking downstream during Spring 2013 inspection.

LM Start	0.71	Rating **	М	Issue No.		59		
LM End	0.71	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory	Salegory				Start			
Item	Encroach	ments		38.3362	91°	38.336291	0	
item			-121.5682	60°	-121.568260	0		
DWR ID	NR ID DWR_RD0150_02_s _ 2016_59							
Comment Code								

TR : Tree or limb

Inspector Comment

Damaged tree roots and trunks appear to damage landside slope of the levee.

Photo 1 of 2: FA_2016_RD0150_16_59_20161104_00117.jpg



Updated picture of the tree limbs and roots on the landside of the levee looking downstream. Fall 2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	0.71	Rating **	М	Issue No.		59 (cont)				
LM End	0.71	Issue Type +	Ma	Location *		Location *		Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude				
Calegory				Start		End				
Item	Encroachi	ments		38.3362	91°	38.336291 °				
item				-121.568260 °		-121.568260 °				
DWR ID DWR_RD0150_02_s _ 2016_59										
		Comn	nent Cod	de						
TR : Tree	or limb									
Inspector Comment										
Damaged levee.	tree roots	and trunks ap	pear to o	damage lan	dsid	e slope of the				



View of tree trunks and roots on the landside of the levee looking upstream.

LM Start	1.14	Rating **	N	Issue No.		8		
LM End	1.14	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Trim / Thi	Trim / Thin Trees			64°	38.340864°		
item				-121.5629	15°	-121.562915°		
DWR ID	DWR_RD0	150_02_s _ 201	2_8					
		Comn	nent Cod	de				
T5 : Tree s	stumps.							
	Inspector Comment							



View of a tree stump on the landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	1.89	Rating **	М	Issue No.		50		
LM End	1.89	Issue Type +	Ma	Location *	WS			
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory				Start		End		
Item	Encroachi	ments		38.3463	323°	38.346323 °		
пеш			-121.551568°		-121.551568 °			
DWR ID	DWR ID DWR_RD0150_02_f _ 2014_50							
		Comn	nent Cod	de				
PI : Pipe								
		Inspecto	or Comm	nent				
An abando	An abandoned pipe was found on the waterside of the levee.							



A pipe was found on the waterside toe of the levee looking upstream.

LM Start	2.75	Rating **	N	Issue No.		14		
LM End	2.75	Issue Type +	Ма	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End		
Item	Trim / Thi	n Trees		38.3500)41°	38.350041 °		
пеш			-121.5368	853°	-121.536853 °			
DWR ID DWR_RD0150_02_s _ 2012_14								
	Comment Code							
T5 : Tree s	stumps.							
			•					
		Inspecto	or Comm	nent				



View of a tree stump on the landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	3.24 Rating ** M		Issue No.		961		
LM End	3.24	Issue Type +	Ma	Location *		WS	
Category	evee	GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.3553	21 °	38.355321 °	
item				-121.5309	02 °	-121.530902°	
DWR ID DWR_RD0150_02_s _ 2012_961						·	
Comment Code							

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.

LM Start	3.24	Rating **	М	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ма	Location *	WS



Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

Photo 2 of 5: FA_2016_RD0150_16_961_20160823_00051.jpg



View of the erosion on the waterside slope of the levee near the pipe looking downstream. This picture was taken during the fall 2013 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	3.24 Rating ** M			Issue No.		961 (cont)		
LM End	3.24	Issue Type +	Ma	Location *	WS			
Catagory	GPS La	atitud	le/Longitude					
Category				Start		End		
ltom	Erosion /	Bank Caving		38.3553	21 °	38.355321		
пеш	Item					-121.530902		
DWR ID DWR_RD0150_02_s _ 2012_961								
	Comment Code							

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.

LM Start	3.24	Rating **	М	Issue No.	961 (cont)
LM End	3.24	Issue Type +	Ма	Location *	WS



View of the erosion on the waterside slope of the levee looking upstream during spring 2013 inspection.

Photo 4 of 5: FA_2016_RD0150_16_961_20160823_00053.jpg



View of erosion and damaged pipe and abandoned boat on the waterside of the levee looking upstream. This picture was taken during fall 2012 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	3.24 Rating ** M			Issue No.		961 (cont)		
LM End	3.24	Issue Type +	Ма	Location *	Location *		WS	
Category	evee	GPS Latitude/Longitude						
Calegory			Start		End			
Item	Erosion /	Bank Caving		38.3553	21 °	38.355321		
item	item					-121.530902		
DWR ID DWR_RD0150_02_s _ 2012_961								
Comment Code								

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Depressions into the waterward slope can be seen along the waterward slope at this site. Also note the damaged pump support, pump, and pipe just upstream of the site; they may contribute to the erosion in a high water event and should be removed.



View of the erosion site, and broken pump support along with a boat on the waterside of the levee. The picture was taken from the crown looking towards the toe of the levee during fall 2011 inspection.

LM Start	3.30	Rating **	М	Issue No.		17		
LM End	3.30	Issue Type +	Ма	Location *		LS		
Category	evee	GPS Latitude/Longitude						
Category				Start		End		
Item	Vegetatio		38.3559	79°	38.355979°			
item				-121.5302	88°	-121.530288°		
DWR ID	DWR_RD0	150_02_s _ 201	2_17					
		Comn	nent Cod	de				
V4 : Elderk	perries are	blocking visib	ility and	flood fight of	capa	ability.		
	Inspector Comment							
Elderberry is partially blocking the visibility.								

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	3.91	Rating **	М	Issue No.		61
LM End	3.91	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Encroachi	ments		38.3623	57°	38.362357°
пеш				-121.522582 °		-121.522582 °
DWR ID	DWR_RD0	150_02_s _ 201	6_61			
		Comn	nent Cod	de		
PR : Pruni	ngs					
		1	0	1		
		Inspecto	or Comm	nent		



View of prunings on the landside of the levee.

LM Start	4.50	Rating **	A/W	Issue No.		1	
LM End	4.57	Issue Type +	Ma	Location *		WS	
Category	Suppleme		GPS Latitude/Longitude				
Calegory				Start	End		
Item		CE Erosion S	Survey,	38.37092	28°	38.371909°	
item	DRAFT			-121.52306	9°	-121.523316°	
DWR ID	DWR_RD0	150_02_s _ 201	6_1				
		Comn	nent Coc	de			

Inspector Comment

1999 - Downstream end (300 ft) repaired with rock. 2010 - Toe erosion, some vertical slopes lower down. 2011 - Failing rock repair. Slumping of the lower bank. Minor new erosion. 2013 - Tree at upstream end has exposed roots. Some new erosion. 2015: No observed changes. [2015 Site ID: SAC_38-5_R]

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

				II.			
LM Start	4.69	Rating **	М	Issue No.		28	
LM End	4.69	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	n		38.3734	85°	38.373485 °	
item				-121.523963 °		-121.523963°	
DWR ID DWR_RD0150_02_s _ 2012_28							
		Comn	nent Cod	de			
V2 : Remo slopes.	ove the wild	d growth other	than na	tive grasse	s fro	m the levee	
		Inspecto	or Comm	nent			



Century plant on waterward slope at LM 4.76

LM Start	5.24	Rating **	М	Issue No.		975	
LM End	5.24	Issue Type +	Ма	Location *		WS	
Catagoria Earthen Levee				GPS La	atitud	le/Longitude	
Calegory	Category					End	
Item	Slope Sta	bility		38.3811	26°	38.381126°	
item				-121.5242	07°	-121.524207°	
DWR ID	DWR_RD0	3_975					
	Comment Code						

S1: Repair slope instability.

Inspector Comment

Depression in the waterward slope at the shoulder over an irrigation pipe.

Photo 1 of 2 : FA_2016_RD0150_16_975_20160823_00055.jpg



View of minor slope instability on the waterside slope of the levee looking downstream during fall 2013 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	5.24	Rating **	М	Issue No.		975 (cont)
LM End	5.24	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		38.3811	26°	38.381126°
item				-121.524207 °		-121.524207°
DWR ID	DWR_RD0	150_02_s _ 201	3_975			
		Comn	nent Cod	de		
S1 : Repai	r slope ins	tability.				
		Inspecto	or Comm	nent		
Depressio pipe.	n in the wa	terward slope	at the s	houlder ove	er an	irrigation



View of a minor depression along the landward slope of the levee over a pipe penetration looking downstream.

LM Start	5.33	Rating **	М	Issue No.		54	
LM End	5.33	Issue Type +	Ma	Location *	Location *		
Category	Earthen Levee					e/Longitude	
Calegory						End	
Item	Slope Sta	bility		38.382072°		38.382072 °	
item				-121.5232	20°	-121.523220°	
DWR ID	DWR_RD0	150_02_f _ 201	4_54				
Comment Code							
S2 : Repai	S2 : Repair the levee slope damaged by foot traffic and prevent access						

where possible.

Inspector Comment



View of a slope instability on the waterside of the levee looking towards the toe.

Page 11 of 13

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	5.69	Rating **	М	Issue No.		62
LM End	5.69	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroachi	ments		38.3853	29°	38.385329°
item				-121.5180	24°	-121.518024°
DWR ID	DWR_RD0	150_02_f _ 201	6_62			
		Comn	nent Cod	de		
DE : Debri	s					
			•			
		Inspecto	or Comm	nent		



View of debris on the landside shoulder of the levee. Fall 2016

LM Start	5.90	Rating **	М	Issue No.		52	
LM End	5.90	Issue Type +	Ma	Location *		LS	
Catagory	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Erosion / I	Bank Caving		38.3879	15°	38.387915 °	
item				-121.516002°		-121.516002 °	
DWR ID	DWR_RD0	150_02_f _ 201	6_52				
		Comn	nent Cod	de			
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	tion.	
		Inspecto	or Comm	nent			
Erosion due to runoff.							
	·	of erosion site	e prior to	the next in	spec	ction.	



View of an erosion due to runoff on the landside of the levee. Fall 2016

LM Start	7.22	Rating **	A/W	Issue No.		32
LM End	7.22	Issue Type +	Ма	Location *		LS
Category	Catagonia Earthen Levee			GPS La	atitud	e/Longitude
Category				Start		End
Item	Vegetatio	n		38.4064	54°	38.406454 °
item				-121.5177	'32 °	-121.517732 °
DWR ID	DWR_RD0	150_02_s _ 201	2_32	•		·
		Comn	nent Cod	le		
V4 : Elderl	perries are	blocking visib	ility and	flood fight	сара	ability.
			_			
		Inspecto	or Comm	nent		

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Right	7.81	11/01/2016 11/01/2016	Pavel Kazi

LM Start	7.22	Rating **	Α	Issue No.		51		
LM End	7.22	Issue Type +	Ма	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Vegetatio	n				38.406503°		
пеш				-121.5177	-121.517760°			
DWR ID DWR_RD0150_02_f _ 2016_51								
		Comn	nent Cod	de				
V1 : Contreasements		grass and wee	eds on th	e levee slo	pes a	and		
		Inspecto	or Comn	nent				
Acceptable vegetation.								



View of landside slope of the levee. Fall 2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	0.11	Rating **	М	Issue No.		936		
LM End	0.11	Issue Type +	Ма	Location *		WS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Vegetatio	า		38.334233 ° 38.334				
item				-121.583414 ° -121.58				
DWR ID DWR_RD0150_03_s _ 2012_936								
		Comn	nent Cod	de				
V4 : Elderk	perries are	blocking visib	ility and	flood fight	capa	bility.		
		Inspecto	or Comm	nent				
Elderberries are partially blocking visibility.								



View of elderberry bush within 20 feet of shoulder blocking visibility and access.

LM Start	0.56	Rating **	Α	Issue No.		54	
LM End	0.56	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Outogory				Start		End	
Item	Vegetatio	n		38.340415 ° 38.3			
itom				-121.580943 °		-121.580943°	
DWR ID DWR_RD0150_03_f _ 2016_54							
		Comn	nent Cod	de			
V1 : Contro easements		rass and wee	eds on th	e levee slo	oes a	and	
		Inspecto	or Comm	nent			
Acceptable vegetation.							



View of landside of the levee looking downstream. Fall 2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	0.92	Rating **	М	Issue No.		5	
LM End	0.92	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Vegetatio	า		38.3454	93°	38.345493 °	
item				-121.579682° -121.579			
DWR ID DWR_RD0150_03_s _ 2012_5							
		Comn	nent Cod	de			
V4 : Elderb	perries are	blocking visib	ility and	flood fight	сара	bility.	
			•				
		Inspecto	or Comm	nent			
Elderberries are partially blocking visibility.							



View of elderberries on the landward slope of the levee.

LM Start	1.40	Rating **	М	Issue No.		393
LM End	1.40	Issue Type +	Ma	Location *	WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start End		
Item	Animal Co	ontrol	38.347880 °			38.347880 °
пеш				-121.572500°		-121.572500°
DWR ID	DWR_RD0	150_03_s _ 201	5_393			
		Comn	nent Cod	de		
A3: No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						



Rodent holes were found on the waterside of the levee looking downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	1.78	Rating **	М	Issue No.		50	
LM End	1.78	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion /	osion / Bank Caving 38.353249 °					
item				-121.572848 ° -121.572			
DWR ID DWR_RD0150_03_s _ 2012_50							
		Comn	nent Cod	de			
E1 : Note	and monito	or erosion site					
		1	0	1			
		Inspecto	or Comm	nent			
Stairs are	dug next to	the pipe.					



Steps were dug next to the pipe and also erosion was found near the vicinity of the pipe on the waterside slope of the levee looking upstream.

LM Start	1.83	Rating **	М	Issue No.		85			
LM End	1.83	Issue Type +	Ма	Location *		WS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Encroach	ments		38.3537	'61 °	38.353761 °			
item				-121.5723	90°	-121.572390°			
DWR ID DWR_RD0150_03_s _ 2016_85									
		Comn	nent Cod	de					
TR : Tree	or limb								
			_						
	Inspector Comment								



View of broken tree trunk on the waterside slope of the levee.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	2.24	Rating **	М	Issue No.		75		
LM End	2.24	Issue Type +	Ma	Location *		LS		
Category Earthen Levee			GPS Latitude/Longitude					
			Start		End			
Item	Vegetatio	n		38.353811°		38.353811 °		
item				-121.565668 °		-121.565668°		
DWR ID	DWR_RD0	150_03_f _ 201	4_75					
Comment Code								
1/2 · Remo	we the wild	d arowth other	than na	tive arasses	fro	m the levee		

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Newly planted tree was found on the landside slope of the levee.



Updated picture of the newly planted tree on the landside shoulder of the levee during spring 2016.

LM Start	2.31	Rating **	М	Issue No.		78	
LM End	2.31	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee				atitud	le/Longitude	
Category	У			Start		End	
Item	Trim / Thin Trees			38.3542	86°	38.354286 °	
item					94°	-121.564494°	
DWR ID	DWR_RD0	150_03_s _ 201	2_78				
		Comn	nent Cod	de			
T2: Thin trees to allow visibility of the ground and room to flood fight.							

Inspector Comment

New tree was planted on the landside slope.

Photo 1 of 4: FA_2016_RD0150_17_78_20160823_00069.jpg



Updated picture of the trees on the landside of the levee during spring 2015 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	2.31	Rating **	М	Issue No.		78 (cont)	
LM End	2.31	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		38.3542	86°	38.354286 °	
пеш					-121.564494 °		
DWR ID	DWR ID DWR_RD0150_03_s _ 2012_78						
		Comn	nent Cod	de			
T2 : Thin t	rees to allo	ow visibility of	the grou	nd and roo	m to	flood fight.	
		Inspecto	or Comm	nent			
New tree v	vas plante	d on the lands	ide slop	е.			

Ма

Issue No.

Location *

78 (cont)

LS

Rating **

Issue Type +

LM Start

LM End

2.31

2.31

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Photo 2 of 4: FA_2016_RD0150_17_78_20160823_00070.jpg

View of the newly planted tree on the landside slope of the levee during spring 2014 inspection.

Photo 3 of 4: FA_2016_RD0150_17_78_20160823_00071.jpg



Several newly planted trees were found on the landside slope of the levee looking upstream during the fall 2013 inspection.

Photo 4 of 4: FA_2016_RD0150_17_78_20160823_00072.jpg

LM Start	2.31	Rating **	М	Issue No.	78 (cont)
LM End	2.31	Issue Type +	Ma	Location *	LS



New tree was planted on the landside of the levee looking downstream.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	2.55	Rating **	N	Issue No.		11	
LM End	2.55	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.3568	853°	38.356853°	
item	item				65°	-121.561565 °	
DWR ID	DWR_RD0	150_03_s _ 201	2_11				
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			



View of tree stumps on the landward slope.

LM Start	2.65	Rating **	С	Issue No.		86	
LM End	2.65	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		38.3582	28°	38.358228 °	
item				-121.561316°		-121.561316°	
DWR ID DWR_RD0150_03_s _ 2016_86							
		Comn	nent Cod	de			
DE : Debri	s						
		Inspecto	or Comm	nent			

No Photos

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	2.80	Rating **	М	Issue No.		35		
LM End	2.80	Issue Type +	Ma	Location *		WS		
Category Earthen Levee				GPS La	atitud	le/Longitude		
				Start		End		
Item	Erosion / Bank Caving			38.3604	32°	38.360432 °		
пеш	item				644°	-121.561644°		
DWR ID	DWR ID DWR_RD0150_03_s _ 2013_35							
		Comn	nent Cod	de				
E2 : Schedule repair of erosion site prior to the next inspection.								
		Inspecto	or Comm	nent				

Photo 1 of 2 : FA_2016_RD0150	0_17_35_20160823_00028.jpg
"	
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Design of the	
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Updated picture of the erosion on the waterside of the levee during spring 2015 inspection.

2.80 Rating ** Issue No. 35 (cont) LM Start M Issue Type + Location * WS 2.80 Ма LM End

Photo 2 of 2: FA_2016_RD0150_17_35_20160823_00029.jpg



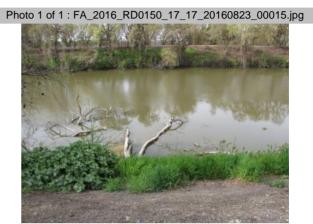
Updated picture of the erosion on the waterside slope of the levee during spring 2014 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	2.82	Rating **	N	Issue No.		17	
LM End	2.82	Issue Type +	Ма	Location *	WS		
Category Earthen Levee				GPS L	atitude	e/Longitude	
				Start		End	
Item	Trim / Thi	38.360621 °		38.360621 °			
item		-121.561762 °		-121.561762°			
DWR ID DWR_RD0150_03_s _ 2012_17							
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
			•				
Inspector Comment							



View of tree stumps on the waterward slope.

LM Start	3.15	Rating **	N	Issue No.		20	
LM End	3.15	Issue Type +	Ma	Location *		WS	
Earthen Levee				GPS La	atitud	le/Longitude	
Category		Start		End			
Item	Trim / Thin Trees			38.3636	58°	38.363658°	
item	item				83°	-121.559583°	
DWR ID DWR_RD0150_03_s _ 2012_20							
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			



View of tree stumps on the waterward slope.

LM Start	3.20	Rating **	С	Issue No.		77		
LM End	3.20	Issue Type +	Ма	Location *		WS		
Category Earthen Levee				GPS Latitude/Longitude				
				Start		End		
Item	Animal Control			38.3633	864°	38.363364°		
item				-121.558682 °		-121.558682°		
DWR ID DWR_RD0150_03_f _ 2014_77								
		Comn	nent Cod	de				
A3 : No roo compact o		le, but rodent rows.	burrows	visible; ne	ed to	backfill and		
		Inspecto	or Comm	nent				

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM End Category	3.34 arthen L	Issue Type +	Ma	Location *			
	arthen L	01/00				WS	
Category		evee	Earthen Levee				
	Calegory					End	
T Item	Trim / Thin Trees			38.363147°		38.363147	
пеш		-121.556190 °		-121.556190			
DWR ID DWR_RD0150_03_s _ 2012_27							
		Comn	nent Cod	de			
T5 : Tree stu	ımps.						
Inspector Comment							



View of tree stumps on the waterside slope looking upstream.

LM Start	3.39	Rating **	U	Issue No.		115			
LM End	3.39	Issue Type +	Ма	Location *		LS			
Catagory	evee	GPS Latitude/Longitude							
Category				Start		End			
Item	Erosion / I		38.363540°		38.363540°				
пеш	item				54°	-121.555554°			
DWR ID DWR_RD0150_03_f _ 2013_115									
		Comn	nent Cod	de					
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spe	ction.			
		Inspecto	or Comm	nent					
Erosion (di	Erosion (ditch) was found on the landside toe of the levee.								



Updated picture of the ditch on the landside toe of the levee. Fall 2016

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	3.39	Rating **	U	Issue No.		115 (cont)	
LM End	3.39	Issue Type +	Ма	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion / I	Bank Caving		38.3635	40°	38.363540°	
пеш				-121.5555	54°	-121.555554°	
DWR ID	DWR_RD0	150_03_f _ 201	3_115				
		Comn	nent Cod	de			
E2 : Scheo	lule repair	of erosion site	e prior to	the next in	spec	ction.	
		Inspecto	or Comm	nent			
Erosion (di	tch) was fo	ound on the la	andside t	oe of the le	vee.		

S 100/1/2
11/15/2015

Photo 2 of 3: FA_2016_RD0150_17_115_20160823_00093.jpg

Updated picture of the ditch on the landside toe of the levee during fall 2015 inspection.

LM Start 3.39 Rating ** U Issue No. 115 (cont) LM End 3.39 Issue Type + Ma Location * LS

Photo 3 of 3: FA_2016_RD0150_17_115_20160823_00094.jpg



A drainage ditch with depth of 4 feet and width of 15 feet was found on the landside toe of the levee. The picture was taken from the landside slope looking upstream during the fall 2013 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	3.41	Rating **	U	Issue No.		98	
LM End	3.41	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS L	atitud	e/Longitude	
Calegory				Start		End	
Item	Erosion /	Bank Caving		38.363803 °		38.363803°	
пеш				-121.555432 °		-121.555432°	
DWR ID	DWR_RD0	150_03_s _ 201	2_98				
		Comn	nent Cod	de			
E1 : Note a	and monito	or erosion site					
Inspector Comment							
Erosion was located on the waterside of the levee looking downstream.							



Erosion was found on the waterside of the levee looking downstream.

LM Start	3.51	Rating **	С	Issue No.		42	
LM End	3.51	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee				titud	e/Longitude	
Calegory				Start		End	
Item	Animal Co	ontrol		38.3652	59°	38.365259	0
пеш				-121.5554	29°	-121.555429	0
DWR ID	DWR_RD0	150_03_f _ 201	5_42				
		0		1_			

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	3.54	Rating **	Α	Issue No.		71
LM End	3.54	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	titud	le/Longitude
Calegory				Start		End
Item	Vegetatio	n		38.36569	99°	38.365699°
пеш				-121.5555	46 °	-121.555546°
DWR ID DWR_RD0150_03_f _ 2016_71						

Comment Code

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Acceptable vegetation.



View of the landside of the levee looking upstream. Fall 2016

* Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M: Minimally Acceptable CR : Corrected U: Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Not Applicable M: Not Inspected/Rated M: Minimally Acceptable D: C: Corrected Ob: Design & System Obsolescence En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	4.02	Rating **	М	Issue No.		93
LM End	4.02	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Erosion / I	Bank Caving		38.3701	25 °	38.370125°
пеш				-121.5520	30°	-121.552030 °
DWR ID	DWR_RD0	150_03_s _ 201	6_93			
		Comn	nent Cod	de		
E1 : Note a	and monito	or erosion site				
		Inspecto	or Comm	nent		
Erosion or	the water	side toe of the	e levee.			



An erosion was found on the waterside toe of the levee.

LM Start	4.99	Rating **	М	Issue No.		36
LM End	4.99	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Slope Sta	bility		38.3787	71°	38.378771°
item				-121.5405	38°	-121.540538°
DWR ID	DWR_RD0	150_03_f _ 201	2_36			·
		Comn	nent Cod	de		
S1 : Repai	r slope ins	tability.				
		Inspecto	or Comm	nent		



Updated picture of the slope instability of the waterside shoulder of the levee during fall 2015 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

		5					
LM Start	4.99	Rating **	М	Issue No.		36 (cont)	
LM End	4.99	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	titud	le/Longitude	
Category				Start		End	
Item	Slope Sta	bility		38.3787	71 °	38.378771°	
item				-121.5405	38°	-121.540538°	
DWR ID	DWR_RD0	150_03_f _ 201	2_36				
		Comn	nent Cod	de			
S1 : Repai	ir slope ins	tability.					
		Inspecto	or Comm	nent			



Slope instability was found on the waterside of the levee looking upstream.

LM Start	5.14	Rating **	М	Issue No.		941	
LM End	5.14	Issue Type +	Ma	Location *	CR		
Category	evee	GPS La	atitud	e/Longitude			
Category	Category					End	
Item		rface / Depres	ssions /	38.3807	79°	38.380779°	
пеш	Rutting			-121.5402	64°	-121.540264°	
DWR ID	ID DWR_RD0150_03_s _ 2012_941						
Comment Code							

C2 : Repair depressions or ruts in the crown or slope.

Inspector Comment

There is a significant difference in the crown roadway elevation as it transitions from the paved roadway to the gravel access road.

Photo 1 of 1 : FA_2016_RD0150_17_941_20160823_00102.jpg



View of varying elevations in the crown of the levee at the transition from county road to access road.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	5.15	Rating **	М	Issue No.		72		
LM End	5.15	Issue Type +	Ма	Location *	WS			
Category	evee	GPS La	atitud	e/Longitude				
Calegory				Start		End		
Item	Encroachi	ments		38.3809	40°	38.380940°		
пеш				-121.5403	84 °	-121.540384°		
DWR ID DWR_RD0150_03_f _ 2016_72								
		Comn	nent Cod	de				
TR : Tree	or limb							
		Inspecto	or Comm	nent				
Tree stump and broken tree was found on the waterside toe.								
·								



View of tree stump and broken tree on the waterside toe of the levee. Fall 2016

LM Start	5.32	Rating **	М	Issue No.		96		
LM End	5.32	Issue Type +	Ma	Location *	WS			
Category Earthen Levee				GPS L	atitud	e/Longitude		
				Start		End		
Item	Encroach	ments		38.3818	343°	38.381843°		
item				-121.5431	17°	-121.543117°		
DWR ID	DWR_RD0	150_03_s _ 201	16_96					
		Comn	nent Cod	de				
TR : Tree	or limb							
			•					
		Inspecto	or Comm	nent				
Broken tre	Broken tree/root damaged levee slope.							



Broken tree roots and tree trunks were found on the waterside toe of the levee.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	5.49	Rating **	N	Issue No.		74
LM End	5.49	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		38.3830	51 °	38.383051 °
item				-121.545735°		-121.545735°
DWR ID	DWR_RD0	150_03_f _ 201	6_74			
		Comn	nent Cod	de		
T5 : Tree s	stumps.					
		Inspecto	or Comm	nent		
Tree stump and broken tree was found on the waterside shoulder of the levee.						



View of tree trunks on the waterside shoulder of the levee. Fall 2016

LM Start	5.56	Rating **	N	Issue No.		68			
LM End	5.56	Issue Type +	Ма	Location *	WS				
Category	evee	GPS La	atituc	le/Longitude					
Calegory		Start		End					
Item	Trim / Thi	n Trees		38.3836	97°	38.383697°			
пеш				-121.5452	01°	-121.545201 °			
DWR ID	DWR ID DWR_RD0150_03_s _ 2012_68								
		Comn	nent Cod	de					
T5 : Tree s	stumps.								
		Inspecto	or Comm	nent					



Tree stump was found on the waterside of the levee looking upstream.

LM Start	5.69	Rating **	N	Issue No.	41				
LM End	5.69	Issue Type +	Ma	Location *	WS				
Category Earthen Levee				GPS La	atitud	e/Longitude			
Category	Start		End						
Item	38.3839	69°	38.383969	0					
пеш				-121.542806°		-121.542806	0		
DWR ID	DWR_RD0	150_03_s _ 201	2_41						
		Comn	nent Cod	de					
T5 : Tree s	stumps.								
		Inspecto	or Comm	nent					

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	5.78	Rating **	М	Issue No.		28	
LM End	5.78	Issue Type +	Ma	Location *	WS		
Category Earthen Levee				GPS La	atitud	e/Longitude	
Calegory					End		
Item	Vegetatio	n		38.3843	33°	38.384333°	
itein				-121.5413	10°	-121.541310°	
DWR ID	DWR_RD0	150_03_s _ 201	2_28				
Comment Code							
V2 : Remove the wild growth other than native grasses from the levee							

slopes.

Inspector Comment



Wild growth was found on the waterside slope of the levee looking upstream.

LM Start	5.82	Rating **	М	Issue No.		57			
LM End	5.82	Issue Type +	Ма	Location *	LS				
Category	evee	GPS La	atitud	e/Longitude					
Calegory				Start		End			
Item	Encroach	ments		38.3846	48°	38.384648 °			
пеш				-121.5406	69°	-121.540669 °			
DWR ID	DWR ID DWR_RD0150_03_s _ 2012_57								
		Comn	nent Cod	de					
TR : Tree	or limb								
		Inspecto	or Comm	nent					



View of a tree trunk lying on the landward slope blocking visibility.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	5.95	Rating **	С	Issue No.	33	
LM End	5.95	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		38.3863	51°	38.386351°
пеш				-121.5398	28°	-121.539828°
DWR ID	DWR_RD0	150_03_s _ 201	2_33			
		Comn	nent Cod	de		
T2 : Thin t	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.
		Inspecto	or Comm	nent		

No Photos

LM Start	6.23	Rating **	N	Issue No.		49	
LM End	6.23	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.389658°		38.389658°	
пеш				-121.5415	18°	-121.541518°	
DWR ID	DWR_RD0	150_03_s _ 201	2_49				
		Comn	nent Cod	de			
T5 : Tree s	stumps.						

Inspector Comment



View of tree stumps on the waterward slope.

LM Start	6.38	Rating **	С	Issue No.		62		
LM End	6.38	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee	GPS La	atitud	e/Longitude			
Category	Category					End		
Item	Trim / Thi	n Trees		38.390935° 38		38.390935°		
пеш				-121.5393	69°	-121.539369°		
DWR ID DWR_RD0150_03_s _ 2012_62								
	Comment Code							

T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	6.91	Rating **	М	Issue No.		79
LM End	6.91	Issue Type +	Ma	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Trim / Thi	n Trees		38.3966	98°	38.396698°
пеш				-121.5354	06°	-121.535406 °
DWR ID	DWR_RD0	150_03_f _ 201	2_79			
		Comn	nent Cod	de		
T2: Thin t	rees to allo	w visibility of	the grou	nd and roor	n to	flood fight.
		Inspecto	or Comm	nent		

No Photos

LM Start	7.38	Rating **	N	Issue No.		63	
LM End	7.38	Issue Type +	Ma	Location *		LS	
Category Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Trim / Thi	n Trees		38.4027	79°	38.402779°	
item				-121.5381	97°	-121.538197°	
DWR ID	DWR_RD0	150_03_s _ 201	2_63				
Comment Code							
T5 : Tree s	T5 : Tree stumps.						

Inspector Comment



View of a tree stump on the landward slope.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	7.70	Rating **	М	Issue No.		52	
LM End	7.70	Issue Type +	Ma	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		38.4055	36°	38.405536°	
item				-121.5427	'52 °	-121.542752°	
DWR ID	DWR_RD0	150_03_f _ 201	5_52				
		Comn	nent Cod	de			
TR : Tree	or limb						
Inspector Comment							
Tree trunks and stumps might damage the levee toe during high water.							



View of the tree trunk on the waterside toe of the levee.

LM Start	7.74	Rating **	М	Issue No.		396
LM End	7.74	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS L	atitud	le/Longitude
Calegory				Start		End
Item	Slope Sta	bility		38.4060	98°	38.406098°
пеш				-121.5430)28°	-121.543028°
DWR ID	DWR_RD0	150_03_s _ 201	5_396			
		Comn	nent Cod	le		
S1 : Repai	r slope ins	tability.				
		Inspecto	or Comm	ent		
Slope insta	ability caus	sed by a tree.				



Slope instability was found on the waterside toe of the levee looking upstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	8.02	Rating **	М	Issue No.	92	
LM End	8.02	Issue Type +	Ма	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Slope Sta	bility		38.4091	30°	38.409130 °
пеш				-121.5399	71 °	-121.539971 °
DWR ID	DWR_RD0	150_03_s _ 201	4_92			
		Comn	nent Cod	de		
S1 : Repai	r slope ins	tability.				
		Inanasta	or Comm	n a m t		
		mspecii	or Comn	ieni		

LM Start	8.02	Rating **	М	Issue No.	92 (cont)
LM End	8.02	Issue Type +	Ма	Location *	WS



Updated picture of the slope instability on the waterside of the levee looking upstream during spring 2015 inspection.

Photo 2 of 2: FA_2016_RD0150_17_92_20160823_00085.jpg



A slope instability was found on the waterside of the levee looking downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	8.31	Rating **	М	Issue No.		66
LM End	8.31	Issue Type +	Ма	Location *		WS
Catagory	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Erosion / I	Bank Caving		38.4079	60°	38.407960 °
пеш				-121.5348	98°	-121.534898 °
DWR ID DWR_RD0150_03_s _ 2012_66						
		Comn	nent Cod	de		
E1 : Note a	and monito	r erosion site	-			
		1	0	1		
		Inspecto	or Comm	nent		



Updated picture of the erosion on the waterside of the levee.

LM Start	8.37	Rating **	U	Issue No.		89	
LM End	8.37	Issue Type +	Ma	Location *		WS	
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Animal Co	ontrol		38.4081	53°	38.408153°	
пеш				-121.5339	80°	-121.533980°	
DWR ID DWR_RD0150_03_s _ 2012_89							
		Comn	nent Cod	de			
A1 : Exteri	minate rod	ents and back	fill and o	compact or	grou	t burrows.	
	Inspector Comment						



Updated picture of a rodent hole on the waterside shoulder of the levee during spring 2015 inspection.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	8.37	Rating **	U	Issue No.	89 (cont)	
LM End	8.37	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Category				Start		End
Item	Animal Co	ontrol		38.4081	53°	38.408153 °
пеш				-121.5339	° 08	-121.533980 °
DWR ID DWR_RD0150_03_s _ 2012_89						
		Comn	nent Cod	de		
A1 : Exter	minate rod	ents and back	fill and o	compact or	grou	it burrows.
Inspector Comment						



Updated picture of a rodent hole on the waterside shoulder of the levee during fall 2014 inspection.

LM Start	8.46	Rating **	N	Issue No.		90		
LM End	8.46	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee		GPS L	atitud	e/Longitude		
Category				Start		End		
Item	Trim / Thi		38.4092	220°	38.409220 °			
пеш				-121.5328	801°	-121.532801 °		
DWR ID	DWR ID DWR_RD0150_03_s _ 2012_90							
		Comn	nent Cod	de				
T5 : Tree s	stumps.							
Inspector Comment								
1								



A tree stump was found on the landside of the levee looking upstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 0150 Merrit Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi

LM Start	8.50	Rating **	N	Issue No.		55	
LM End	8.50	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		38.4095	59°	38.409559°	
item		-121.532356 ° -121.532356					
DWR ID DWR_RD0150_03_s _ 2012_55							
		Comn	nent Coo	de			
T5 : Tree s	stumps.						
Inspector Comment							



A tree stump was found on the waterside of the levee looking upstream.

LM Start	9.21	Rating **	N	Issue No.		59	
LM End	9.21	Issue Type +	Ма	Location *		WS	
Earthen Levee				GPS La	atitud	e/Longitude	
Category			Start		End		
Item	Trim / Thi		38.4132	68°	38.413268 °		
item				-121.5259	29°	-121.525929°	
DWR ID DWR_RD0150_03_s _ 2012_59							
Comment Code							
T5 : Tree s	T5 : Tree stumps.						

Inspector Comment



A tree stump was found on the waterside of the levee looking upstream.

LM Start	9.35	Rating **	U	Issue No.		73	
LM End	9.35	Issue Type +	Ma	Location *		WS	
Category	Earthen Levee			GPS La	atitud	e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		38.4131	69°	38.413169	0
пеш				-121.5237	07°	-121.523707	0
DWR ID	DWR_RD0	150_03_s _ 201	2_73				

Comment Code

T3: Trim and thin trees to allow visibility of the ground and room to flood fight.

Inspector Comment



Thin/trim trees to allow for visibility of top 20' of waterward slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Elk Slough	Left	9.41	11/03/2016 11/03/2016	Pavel Kazi